

SMIP07 SEMINAR ON UTILIZATION OF STRONG-MOTION DATA

September 13, 2007

Hilton Sacramento Arden West
2200 Harvard Street, Sacramento, California

FINAL PROGRAM

8:00 am **REGISTRATION**

9:15 am **WELCOMING REMARKS**

Chris Poland, Chair, Strong Motion Instrumentation Advisory Committee (SMIAC)
John Parrish, State Geologist, California Geological Survey
Anthony Shakal, Manager, Strong Motion Instrumentation Program

9:25 am **INTRODUCTION**

Moh Huang, Strong Motion Instrumentation Program

Plenary Session I

Moderator: *Wilfred Iwan*, Caltech and SMIAC

9:30 am **Analysis of Strong Ground Motions from the June 12, 2005 Anza Earthquake**

Robert Graves, *Paul Somerville*, *Nancy Collins*, *Arben Pitarka* and *Sidao Ni*, URS Corporation, Pasadena

10:00 am **Analysis of Seismic Response of Seven Oaks Dam**

Lelio Mejia and *Ethan Dawson*, URS Corporation, Oakland

10:30 am **US National Center for Engineering Strong Motion Data (NCESMD)**

Hamid Haddadi, *Tony Shakal*, *Woody Savage* and *Chris Stephen*, CGS and USGS

11:00 am Break

Plenary Session II

Moderator: *Chris Poland*, Degenkolb Engineers and SMIAC

11:15 am **Evaluation of Current Nonlinear Static Procedures for Concrete Buildings Using Recorded Strong-Motion Data**

Rakesh Goel and Charles Chadwell, Cal Poly State University, San Luis Obispo

11:45 am **Predictive Capability of Nonlinear Static Analysis Procedures for Seismic Evaluation of Buildings**

Dionisio Bernal and *Arash Nasseri*, Northeastern University, Boston

12:15 pm **Luncheon**

Introduction *John Parrish*, State Geologist, California Geological Survey

Speaker: *Kazuyoshi Kudo*, Nihon University and Tokyo Electric Power Services Co.

Title: **Recent Developments in Strong Motion Measurements in Japan and the Damaging Niigata Area Earthquakes of 2007**

Afternoon Sessions

Track 1

Moderator: *Maurice Power*, Geomatrix Consultants and SMIAC

Track 2

Moderator: *Martin Eskijian*, California State Lands Commission and SMIAC

2:00 pm **Results and Implications of the Next Generation Attenuation (NGA) Ground Motion Project**

Norman Abrahamson, PG & E, San Francisco

Development of Criteria for the Seismic Design and Analysis of Tall Buildings in California

Jack Moehle and *Yousef Bozorgnia*, Pacific Earthquake Engineering Research Center, UC Berkeley

2:30 pm **Design Ground Motion Library (DGML) – Tool for Selecting Time History Records for Specific Engineering Applications**

Robert Youngs, *M. Power*, *G. Wang*, *F. Makdisi* and *C.-C. Chin*, Geomatrix Consultants, Oakland

The Intersection of Earthquake Structural Response Monitoring and Structural Health Monitoring

Robert Nigbor, UC Los Angeles

3:00 pm **Directivity in NGA Earthquake Ground Motions: Analysis using Isochrone Theory**

Paul Spudich, USGS and *Brian Chiou*, Caltrans

New Building Code Provisions and their Implications for Design and Construction in California

David Bonneville, Degenkolb Engineers, San Francisco

3:30 pm **Adjourn**